

SMCWHSG14-G EliteConnect 2.4Ghz 802.11g Wireless Hotspot Gateway



OVERVIEW

The EliteConnect 2.4GHz 802.11g Wireless Hotspot Gateway (SMCWHSG14-G) is a multi-functional, all-in-one, hotspot solution that provides: 1) a secure gateway to the Internet 2) high-speed wireless access within the Local Area Network 3) authentication, authorization and accounting services for wireless or wired clients and 4) support for point-of-sale ticket/receipt printing.

As an xDSL/Cable modem gateway, the SMCWHSG14-G offers 1 WAN port and 4 Fast Ethernet LAN ports (Switch). In addition, the WAN port supports 802.11af compliant POE. The gateway supports a host of security features such as NAT, SPI firewall, wireless client isolation, and MAC address filtering to ensure a secure Internet environment.

SMC's Hotspot Gateway comes with a built-in 54Mbps 802.11g Access Point to provide high-speed wireless access. Venues that wish to offer a hotspot service can use the SMCWHSG14-G as a means to authenticate authorize and bill their clients for services such as Internet access. Easy to configure through a web-based management interface, authentication, authorization and accounting settings are supported via 802.1x/RADIUS or by a

built-in local database that can host up to 512 entries. SMC's Hotspot Gateway may also be set up to display specific web pages and web banners for commercial and advertisement purposes during the user login period.

The SMCWHSG14-G supports an included small form-factor, point-of-sale ticket printer. When connected by one of the RJ-45 LAN ports of the Hotspot gateway, the Mini-POS Ticket Printer is able to print out a receipt based on access time. In addition, important information for the client is printed on the ticket such as logon username and password, SSID, security method and encryption key. The ticket is issued simply by pressing one of the three configurable buttons on the ticket printer for the amount of access time purchased by the consumer. SMCWHSG14-G enables installation of secure, easy to manage hotspots as a one-box solution. The multi-functional features of the SMCWHSG14-G support applications that are well suited for hotspot environments such as coffee shops, hotel lobbies, exhibition areas and small to mid-sized transportation centers where Internet Access can be an added value for guest-services.

FEATURES	BENEFITS
AP/Bridge	High performance data rates up to 54 Mbps in 802.11g, and up to 11 Mbps in 802.11b with auto-fall-back feature. In addition, Wireless Client Isolation technology is used to enhance security between wireless clients.
AAA	Authentication, Authorization and Accounting (AAA) services are supported via 802.1x/RADIUS client and server devices. The Wireless Hotspot Gateway also supports an Internal Database of users so that you do not have to add an additional Radius Server
POS Ticket Printer	Supports an external ticket printer/keypad, so a Hotspot Venue can print a ticket for temporary users that will only need the fractal time for Internet access. Includes Mini-POS Ticket Printer for ticket printing.
Gateway/ Router	Provides up to 4 RJ-45 10/100Mbps LAN connections and 1 RJ-45 10/100Mbps WAN connections.
SPI Firewall	Analyzes incoming and outgoing packets based on a set of criteria for abnormal content. SPI can detect hacker attacks, and can summarily reject an attack if the packet fits a suspicious profile.



TECHNICAL SPECIFICATIONS

SMCWSHG14-G

<p>CPU</p> <ul style="list-style-type: none"> • Intel IXP420 266MHz <p>RAM</p> <ul style="list-style-type: none"> • SDRAM 64MB <p>FLASH</p> <ul style="list-style-type: none"> • 16MB <p>NETWORK SPECIFICATION</p> <ul style="list-style-type: none"> • IEEE802.3 10BaseT Ethernet • IEEE802.3u 100BaseTX Fast Ethernet • IEEE802.3af Power over Ethernet • IEEE802.11b Wireless LAN • IEEE802.11g Wireless LAN • Supports 100 Simultaneous Users • IP Plug and Play (iPnP) • HTTP Proxy Support • SMTP Server Redirection • DHCP Server • DHCP Relay • Static IP WAN Client • DHCP WAN Client • PPPoE WAN Client • PPTP WAN Client • NAT • NTP (Network Time Protocol) Support • DDNS <p>OPERATION MODE</p> <ul style="list-style-type: none"> • WLAN: Access Point • Network: Gateway (Router / Switch) <p>INTERFACE</p> <ul style="list-style-type: none"> • Four LAN Ports (10BaseT/100BaseTX Auto cross-over) • One WAN Port (10BaseT/100BaseT) Support • Power over Ethernet • One Serial Port (for RD debug) <p>EXTERNAL ANTENNA TYPE</p> <ul style="list-style-type: none"> • 2dBi (Max) Dual detachable diversity antenna with reverse SMA • Typing Maximum power output 17dBm • Typing Maximum receive sensitivity -87dBm <p>WIRELESS OPERATION RANGE</p> <ul style="list-style-type: none"> • Open Space: 100~300m • Indoors: 35~100m <p>MODULATION TYPE</p> <ul style="list-style-type: none"> • 802.11b DSSS (DBPSK,DQPSK,CCK) • 802.11g OFDM (BPSK,QPSK,16-QAM,64-QAM) <p>WIRELESS DATA RATE</p> <ul style="list-style-type: none"> • 802.11b 11,5.5,2,1Mbps • 802.11g 54,48,36,24,18,12,9,6Mbps Auto Fall Back with 802.11b <p>CHANNEL SUPPORT</p> <ul style="list-style-type: none"> • US/Canada: 1~11 channel • Major European Country: 1~13 channel • France: 10~13 channel • Japan: 802.11b 1~13 or 14th channel; 802.11g 1~13 channel • China: 1~13 channel • Australia: 1~13 channel <p>ENCRYPTION</p> <ul style="list-style-type: none"> • Layer 2 Isolation Security • SSL User Login page/ Configuration Page • SSL Administration • VPN Pass through (IPSec/PPTP) • Customize SSL Certificate • Pass Through IP/MAC/URL Address • Restricted Destination Filtering IP/URL 	<ul style="list-style-type: none"> • VPN (IPSec/PPTP) Pass through • PPTP VPN Client • WEP • WPA <p>POWER REQUIREMENT</p> <ul style="list-style-type: none"> • External Power Adapter • Adapter Input: 100-240 VAC, 50/60 Hz, Output: 5V, 2.5A • Device Input: 5V, 2.5A • Power over Ethernet (PoE) <p>LED INDICATORS</p> <ul style="list-style-type: none"> • One POWER LED • One WAN Link/Activity LED • Four LAN Link/Activity LEDs • One Wireless Link/Activity LED • One Status LED <p>DIMENSION</p> <ul style="list-style-type: none"> • 220(L) x 128(W) x 35(H) mm w/o antennas • 8.7(L) x 5(W) x 1.4(H) in w/o antennas <p>WEIGHT</p> <ul style="list-style-type: none"> • 471g/1lb with antennas <p>ENVIRONMENT CONDITIONS</p> <ul style="list-style-type: none"> • Operating Temperature: 0 to 50_ • Storage Temperature: -10~70_ • Humidity: 10% to 90% non-condensing ; 10% to 80% condensing <p>CERTIFICATION</p> <ul style="list-style-type: none"> • FCC part 15 Class B, CE, CSA, VCCI Class B, CE / R&TTE, C-Tick <p>COMPLIANCE</p> <ul style="list-style-type: none"> • RoHS, WEEE <p>MOUNTING</p> <ul style="list-style-type: none"> • Desktop / Wall mounted <p>SMCWSHG14-G Software Specification</p> <p>NETWORKING</p> <ul style="list-style-type: none"> • IEEE 802.11b Wireless LAN • IEEE 802.11g Wireless LAN • Supports 100 Simultaneous Users • IP Plug and Play • HTTP Proxy Support • SMTP Server Redirection • DNS Redirection • DHCP Server • DHCP Relay • Static IP WAN Client • DHCP WAN Client • PPPoE WAN Client • PPTP WAN Client • NAT • NTP (Network Time Protocol) Support • DDNS <p>MARKETING COOPERATION</p> <ul style="list-style-type: none"> • Advertisement URL link • Walled garden • Customizable log-on and log-off pages • Portal Page • WISPr Smart Client <p>USER AUTHENTICATION</p> <ul style="list-style-type: none"> • Built-in Authentication • Web-based Authentication • RADIUS AAA Support (RFC 2865, 2866) • Secondary RADIUS • User Authentication and Accounting • Logout Window Timer Control 	<p>SECURITY</p> <ul style="list-style-type: none"> • Layer 2 Isolation Security • SSL User Login page/ Configuration Page • SSL Administration • VPN Pass through (IPSec/PPTP) • Customize SSL Certificate • Pass Through IP/MAC/URL Address • Restricted Destination Filtering IP/URL • VPN (IPSec/PPTP) Pass through • PPTP VPN Client • WEP • WPA <p>MANAGEMENT</p> <ul style="list-style-type: none"> • Web-based Management Tool • Firmware Upgrade via HTTP/TFTP • Wizard setup for step-by-step Configuration • Backup/Restore/Factory Default Setting • Remote Authorized Management • Real-time Session List • LAN Device Management • Syslog (System/Subscriber/LAN device) • E-mail logs • SNMP v1/v2 (MIB II, Private MIB) • System Information Table • Status Report (Daily/Monthly/System/Network) • SSL certificate upload • (Hardware Watchdog) <p>POS THERMAL PRINTER INTERFACE</p> <ul style="list-style-type: none"> • One RJ-45 Ethernet Port • One PS/2 <p>POWER REQUIREMENT</p> <ul style="list-style-type: none"> • External Power Adapter • Adapter Input: 100-240 VAC, 50/60 Hz, Output: DC 5V, 2.5A • Device Input: DC 5V, 2.5A <p>PRINT WIDTH</p> <ul style="list-style-type: none"> • 48 mm (Paper width: 58mm) <p>PAPER LENGTH</p> <ul style="list-style-type: none"> • 50M <p>CERTIFICATION</p> <ul style="list-style-type: none"> • VCCI, C-Tick, CE, FCC, CSA <p>DIMENSION</p> <ul style="list-style-type: none"> • 150(L) x 110(W) x 92(H) mm • 6(L) x 4.3(W) x 3.6(H) in <p>WEIGHT</p> <ul style="list-style-type: none"> • 333g/75lb
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